

## **OIL ANALYSIS REPORT**

Sample Rating Trend





#### Machine Id LIEBHERR HS895 188297 Component 1 Winch

Fluid PETRO CANADA TRAXON 75W90 SYNTHETIC (--- LTR)

### DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

## Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

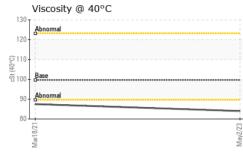
## Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		LH0260277	LH0195191	
Sample Date		Client Info		02 May 2023	18 Mar 2021	
Machine Age	hrs	Client Info		13473	6156	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>150	34	24	
Chromium	ppm	ASTM D5185(m)	>10	<1	<1	
Nickel	ppm	ASTM D5185(m)	>10	<1	<1	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)		0	<1	
Aluminum	ppm	ASTM D5185(m)	>5	0	<1	
Lead	ppm	ASTM D5185(m)	>15	0	<1	
Copper	ppm	ASTM D5185(m)	>80	3	1	
Tin	ppm	ASTM D5185(m)		0	0	
Antimony	ppm	ASTM D5185(m)	>5	0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	328	313	312	
Barium	ppm	ASTM D5185(m)	1	7	3	
Molybdenum	ppm	ASTM D5185(m)		0	<1	
Manganese	ppm	ASTM D5185(m)		<1	<1	
Magnesium	ppm	ASTM D5185(m)	1	4	2	
Calcium	ppm	ASTM D5185(m)	7	13	10	
Phosphorus	ppm	ASTM D5185(m)	1145	1357	1215	
Zinc	ppm	ASTM D5185(m)	3	10	7	
Sulfur	ppm	ASTM D5185(m)	17909	22168	21920	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	2	
Sodium	ppm	ASTM D5185(m)		<1	<1	
Potassium	ppm	ASTM D5185(m)	>20	<1	0	



# **OIL ANALYSIS REPORT**



		VISUAL		method	limit/base	current	history1	history2
		White Metal	scalar	Visual*	NONE	NONE	NONE	
		Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
		Precipitate	scalar	Visual*	NONE	NONE	NONE	
		Silt	scalar	Visual*	NONE	NONE	NONE	
	-	Debris	scalar	Visual*	NONE	NONE	NONE	
		Sand/Dirt	scalar	Visual*	NONE	NONE	VLITE	
	May2/23	Appearance	scalar	Visual*	NORML	NORML	NORML	
	W	Odor	scalar	Visual*	NORML	NORML	NORML	
		Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	
		Free Water	scalar	Visual*		NEG	NEG	
		FLUID PROPERT	TIES	method	limit/base	current	history1	history2
		Visc @ 40°C	cSt	ASTM D7279(m)	99.6	84.0	87.5	
		SAMPLE IMAGES	S	method	limit/base	current	history1	history2
		Color						no image
		Bottom						no image
		GRAPHS						
		Iron (ppm)				Lead (ppm)		
		400 Severe			4	Severe		
	bhu	200 - Abnormal			Ed 2	0 - Abnormal		
						0 2 2 2		
		Mar18/21			May2/23	Mar18/2		Mav2/23
		Aluminum (ppm)			2	Chromium (p	pm)	
		15 Severe				Severe		
		Abnormal			<sup>2</sup> ط	Abnormal		
		0				o		
		Mar18/21			May2/23	Mar18,/21		Mav2/23
		Ma			Ma	Ma		W
		Copper (ppm)				Silicon (ppm)		
		200 Severe			6	Octore		
	mqq	100 - Abnormal			ud 2	Abnormal		
		0						
		Mar18/21			May2/23	Mar1 8/2		Mav2/23
					×			×
		Viscosity @ 40°C			150	Additives		
		120 - Abnormal Base						
	St (40	Base 100 Abnormal			e 100	0 - zinc	S	
	0	80				0		
		Mar1 8/2			May2/23	Mar18/2		Mav2/23
		W			M	M		×
		WearCheck - C8-1175 LH0260277	5 Appleby <b>Rece</b>		gton, ON L7 ) May 2023	L 5H9		u <b>r Develpment</b> 380 Bayside Dr
	Number :		Teste		) May 2023			St John, NB
Accredited Uniq	ue Number :	5577646			May 2023 - V	Ves Davis		CA E2J 4Y8
les	t Package :							: Darien Edisor
	tside scope o	ontact Customer Serv of accreditation, (m) m tion are based on the s	ethod ma	odified, (e) te	sted at exter	rnal lab.	dison.darien@h	arbourdev.com T: F:

Report Id: HAR380STJ [WCAMIS] 02556606 (Generated: 05/17/2024 10:51:07) Rev: 1

回訪

ġ

Contact/Location: Darien Edison - HAR380STJ